

DIGITAL: PLACE VALUE TO 100,000

INCLUDES ROUNDING TO THE NEAREST
TEN • HUNDRED • THOUSAND • TEN THOUSAND

CREATED BY
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EXPANDED FORM MATCH
Drag each number to the correct expanded form representation.

$700+20+5$	$80,000+1,000+300+40+4$	7,902	11,212
$7,000+900+2$	$10,000+1,000+200+10+2$	12,112	725
$10,000+2,000+100+10+2$	$7,000+900+20$	81,344	7,92

DRAG THESE

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THINK ABOUT IT
Which two don't belong?

5 ten thousands, 2 thousands, 5 hundreds	$52,000+50$	DRAG THE HIGHLIGHTER TO HIGHLIGHT THE TWO THAT DON'T BELONG. Explain your thinking. Why don't they belong? Type here.
$50,000+2,000+500$	fifty-two thousand five hundred	

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About This Resource

This digital place value to 100,000 resource is in Google Slides™ format, making it compatible with Google Classroom™. This resource is only intended for digital learning; there is no PDF document included.

There are **over 100 student slides** included in this digital resource. Your students will work with a variety of place value and rounding skills that are generally taught in 4th to 6th grade, *depending on the curriculum that you are using*. This includes representing numbers with base ten blocks, place value discs, word form, expanded form, equations, and number lines. Place value and rounding concepts are reinforced in a conceptual way that will help students construct their understanding.

Slides are divided into the following sections:

Labelling place value

includes ten thousands, thousands, hundreds, tens, and ones

(2 slides)

LABEL THE NUMBER
Label each digit with its place value.

46,218

DRAG THESE PIECES:

Ones, Tens, Ten Thousands, Hundreds, Thousand

LABEL THE NUMBER
Label each digit with its place value.

82,637

DRAG THESE PIECES:

Ones, Tens, Ten Thousands, Hundreds, Thousands

Representing Numbers: Base Ten Blocks

build numbers with base tens, match base ten and standard representations, problem-solving

(10 slides)

THINK ABOUT IT
 Randall is saving up for his first car. He figures out that if he saves \$100 per month for 3 years, he will have enough to buy a car. Based on the value of the blocks shown below, is Randall correct? Will he have enough saved?
 VALUE OF THE CAR: [Base ten blocks representing 3,113]
 Type here.

WRITE THE NUMBER
 Write the number that is represented by each set of base ten blocks.
 [Base ten blocks representing 3,020] Type here.
 [Base ten blocks representing 6,000] Type here.

BASE TEN MATCH
 Drag each number to the correct base ten representation.
 [Base ten blocks representing 3,113] [Base ten blocks representing 3,020] [Base ten blocks representing 6,000] [Base ten blocks representing 10,021]
 3,113
 3,020
 6,000
 10,021
 DRAG THESE PIECES.

Representing Numbers: Place Value Discs

build numbers with place value discs, match different representations, problem-solving

(11 slides)

BUILD THE NUMBER
 Use the place value discs to build each number.
 EXAMPLE: 1,350 [Place value discs for 1,000, 300, 50]
 34,221
 41,585

REPRESENT THE NUMBER
 Highlight the place value discs to represent the number.
 twenty-one thousand four-hundred twenty-three
 [Place value discs for 20,000, 1,000, 400, 20, 3]
 DRAG THE HIGHLIGHTERS.

THINK ABOUT IT
 Danny's Diner serves the best burgers in town! Look at the number of meals served last year and this year.
 LAST YEAR'S MEALS SERVED: [Place value discs for 10,000, 1,000, 1,000, 1,000, 1,000, 1,000]
 THIS YEAR'S MEALS SERVED: [Place value discs for 10,000, 10,000, 1,000]
 Did Danny's Diner serve more meals this year or last year? How do you know?
 Type here.

Representing Numbers: Word Form

match word form to standard form

(4 slides)

The image shows two overlapping digital activity cards. Both cards are titled "WORD FORM MATCH" and have the instruction "Drag each number to the correct word form representation." The left card shows four word form boxes on the left and two standard form numbers on the right: 63,114 and 42,253. The right card shows four word form boxes on the left and three standard form numbers on the right: 11,050, 11,550, and 15,105. Each card has a "DRAG THESE PIECES" icon at the bottom right.

Representing Numbers: Expanded Form

match word form to standard form, error analysis, ordering digits to make smallest and largest numbers

(10 slides)

The image shows three overlapping digital activity cards. The top card is titled "LARGEST AND SMALLEST" and shows the digits 6, 1, 7, 2, 9. It has two sections: "Use the digits above to create the smallest number possible. Then write it in expanded form." and "Now use the digits to create the largest number possible. Then write in expanded form." The middle card is titled "FIND THE MISTAKE" and shows the expanded form $40,000 + 2,000 + 800 + 20$ with a question: "Tamara wrote the expanded form for forty-two thousand eight hundred two, but she made a mistake! Can you find her mistake?" The bottom card is titled "EXPANDED FORM MATCH" and has the instruction "Drag each number to the correct expanded form representation." It shows four expanded form boxes on the left and four standard form numbers on the right: 51,484, 58,330, 52,723, and 5,412. Each card has a "DRAG THESE PIECES" icon at the bottom right.

Representing Numbers: Expressions

(2 slides)

WRITE AN EXPRESSION

Write two different expressions that equal each number.

EXAMPLE 384	$300+80+4$ $390-6$	20,000
13,280		12,255
6,700		675

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WRITE AN EXPRESSION

Write two different expressions that equal each number.

EXAMPLE 575	$500+70+5$ $570+3+2$	350
65,100		1,290
99,725		21,022

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Representing Numbers In Multiple Ways

Students will work with numbers in a variety of ways – base ten blocks, word form, expanded form, place value discs, hundred charts and more! Higher order thinking tasks are included.

(9 slides)

NUMBER FORMS

Fill in the missing spaces on the chart.

STANDARD FORM	EXPANDED FORM	WORD FORM
25,575	Type here.	Type here.
Type here.	Type here.	thirty-five thousand two hundred twenty
Type here.	$30,000+5,000+600+20+4$	Type here.

CREATE A NUMBER

Create any number. Represent it in five different ways.

My number is:

Base Ten Blocks	Place Value Discs	Expanded Form
		Type here.
		Word Form
		Type here.

THINK ABOUT IT

Use any ten base ten blocks to build a number with a value above 10,000.

BUILD THE NUMBER.

WRITE THE NUMBER IN EXPANDED FORM.

Type here.

HUNDRED CHART

Highlight a number on the hundred chart. Represent the number that is 100 more, 1,000 more, and 10,000 more in either expanded form, word form, or as an equation.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

DRAG THE HIGHLIGHTER.

100 more	Type here.
1,000 more	Type here.
10,000 more	Type here.

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THINK ABOUT IT

Which two don't belong?

$20,000+5,000$		
$22,000+3,000$	Two thousand? and five ones	
$10,000+10,000+5,000$		

DRAG THE HIGHLIGHTER TO HIGHLIGHT THE ONES THAT DON'T BELONG.

Explain your thinking. Why don't they belong?

Type here.

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Compare, Order, and Sort

Comparing, ordering, and sorting based on place value relationships

(7 slides)

SORT THE NUMBERS
Sort the numbers into the correct category.

NUMBERS BETWEEN 1 AND 30,000	NUMBERS BETWEEN 30,001 AND 60,000	NUMBERS BETWEEN 60,001 AND 100,000
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ORDER THE NUMBERS
Order the numbers in each set from least to greatest.

DRAG THESE NUMBERS: 25,412, 12,589, 21,895, 21,859, 12,585

ORDER THE NUMBERS
Order the numbers in each set along the number line.

DRAG THESE NUMBERS: 19,000, 15,000, 12,000

DRAG THESE NUMBERS: 51,000, 58,000, 56,000

COMPARE THE NUMBERS
Drag a greater than or less than symbol to compare each set of numbers.

31,520 > 31,502 10,000 > 1,000
 24,211 > 22,122 19,134 > 10,445
 20,446 > 20,464 6,700 > 7,600
 9,050 > 5,880 14,300 > 14,400

Values of Digits

A variety of activities to reinforce the value of digits; includes mystery number activities, 10 times as much, and more and less

(21 slides)

10 TIMES AS MUCH
Think about the value of the number 4,100.

Write a number where the 5 is worth 10 times as much as its value in 4,100.
Type here.

Write a number where the 2 is worth 10 times as much as its value in 4,100.
Type here.

HOW TO USE PLACE VALUE PIECES TO BUILD NUMBERS

STEP ONE:
Choose your pieces. For example, to build 425, we need a 400, a 20, and a 5.

STEP TWO:
Layer the pieces to create the number.

BUILD ANY NUMBER
Use the place value pieces to build ANY number. Then write it in expanded form and word form.

MYSTERY NUMBER
Read the clues. As you eliminate a number, cross it out with an X. Which number is the mystery number?

CLUE #1: I am greater than 75,000.
 CLUE #2: The value of the thousands place is 4,000.
 CLUE #3: I do not have a 0 in the hundreds place.
 CLUE #4: I am not a round number.
 CLUE #5: I am less than 100,000.
 CLUE #6: The value of the tens place is 100.

10,000 58,700
 22,141 89,300

NUMBER VALUES
If the value of the thousands place is 1,000, 2,000, or 3,000, highlight the number pink.
 If the value of the thousands place is 4,000, 5,000, or 6,000, highlight the number blue.
 If the value of the thousands place is 7,000, 8,000, or 9,000, highlight the number orange.

2,067	36,099	11,100
24,543	75,475	89,020
48,080	3,099	17,146

MORE AND LESS
Fill in the missing spaces on the chart.

	1,000 MORE	1,000 LESS	10,000 MORE	10,000 LESS
#	#	#	#	#
#	#	#	#	#
#	#	#	#	#
#	#	#	#	#
#	#	#	#	#

Rounding Numbers Using Place Value Understanding: Nearest Ten

Students will round numbers to 100,000 to the nearest ten. The focus is on making sense of rounding using number lines and base ten blocks.

(8 slides)

THE NEAREST TEN

These blocks show 5,252.

5,252 is # away from 5,250.
5,252 is # away from 5,260.

Which **multiple of 10** is 5,252?
Type here.

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THINK ABOUT IT

100,000 people were surveyed about their favorite sport. Here are the results.

Round the attendance to the nearest ten.

Sport	How many people prefer this sport?	Round the number of people to the nearest ten.
soccer	22,547	Type here.
baseball	38,233	Type here.
basketball	15,887	Type here.
football	23,333	Type here.

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THE NEAREST TEN

These blocks show 11,828.

11,828 is # away from 11,820.
11,828 is # away from 11,830.

Which
Type here

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THE NEAREST TEN

Place a **star** on the number line where you would find 15,553.

away from 15,550.
away from 15,560.

closer to 15,550 or 15,560?

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THE NEAREST TEN

Round each number to the nearest ten.

20,457	<input type="text"/>	12,142	<input type="text"/>
87	<input type="text"/>	20,453	<input type="text"/>
12,049	<input type="text"/>	7,009	<input type="text"/>
7,116	<input type="text"/>	45	<input type="text"/>

DRAG THESE NUMBERS.

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Rounding Numbers Using Place Value Understanding: Nearest Hundred

Students will round numbers to 100,000 to the nearest hundred. The focus is on making sense of rounding using number lines and base ten blocks.

(9 slides)

THE NEAREST HUNDRED

STEP 1: Consider the number 10,588. Write the multiples of 100 that are below and above 10,588 in the blue rectangles.
STEP 2: Place a star on the number line where you would find 10,588.

Which multiple of 100 is 10,588 closest to?

Type here.

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THINK ABOUT IT

In July, the fast-food restaurant's revenue was \$34,545. In August, the revenue was \$42,521. About how much more revenue was earned in August than July?

Round each number to the nearest hundred to find the approximate difference.

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THE NEAREST HUNDRED

These blocks show 9,227.

9,227 is # away from 9,200.
9,227 is # away from 9,300.

Which multiple of 100 is 9,227 closer to: 9,200 or 9,300?

Type here.

THE NEAREST HUNDRED

Round each number to the nearest hundred.

68		10,225	
23		12,342	
23		22,890	
83		5,689	

DRAG THESE NUMBERS.

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THE NEAREST HUNDRED

Place a star on the number line where you would find 67,859.

67,859 is # away from 67,800.
67,859 is # away from 67,900.

Is 67,859 closer to 67,800 or 67,900?

Type here.

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Rounding Numbers Using Place Value Understanding: Nearest Thousand

Students will round numbers to 100,000 to the nearest thousand. The focus is on making sense of rounding using number lines and base ten blocks.

(9 slides)

THE NEAREST THOUSAND

These blocks show 7,396.



7,396 is # away from 7,000.
7,396 is # away from 8,000.

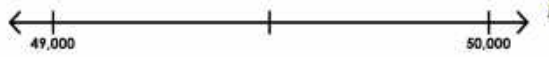
Which multiple of 1,000 is 7,396 closer to?

Type here.

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THE NEAREST THOUSAND

Place a star on the number line where you would find 49,899.



49,899 is # away from 49,000.
49,899 is # away from 50,000.

49,899 closer to 49,000 or 50,000?

Type here.

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THINK ABOUT IT

The largest concert ever held in New York's Central Park was the Garth Brooks concert in 1997. According to Wikipedia, there were 980,000 people in attendance.

Do you think there were exactly 980,000 people there or do you think this number has been rounded? Why might something like concert attendance be rounded to the nearest thousand?

Type here.

List 5 numbers that could be rounded to 980,000.


Type here.

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THE NEAREST THOUSAND

Round each number to the nearest thousand.

244	<input type="text"/>	3,800	<input type="text"/>
501	<input type="text"/>	30,799	<input type="text"/>
987	<input type="text"/>	45,180	<input type="text"/>
499	<input type="text"/>	14,897	<input type="text"/>
657	<input type="text"/>	6,743	<input type="text"/>

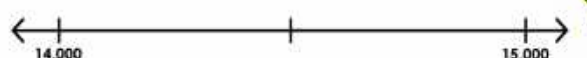


DRAG THESE NUMBERS.

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THE NEAREST THOUSAND

Place a star on the number line where you would find 14,250.



14,250 is # away from 14,000.
14,250 is # away from 15,000.

Is 14,250 closer to 14,000 or 15,000?

Type here.

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Rounding Numbers Using Place Value Understanding: Nearest Ten Thousand

Students will round numbers to 100,000 to the nearest ten thousand. The focus is on making sense of rounding using number lines and base ten blocks.

(9 slides)

THE NEAREST TEN THOUSAND

Place a **star** on the number line where you would find 14,250.

14,250 is # away from 14,000.
14,250 is # away from 15,000.

Is 14,250 closer to 14,000 or 15,000?

Type here.

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THINK ABOUT IT

Think of a situation where you might round a number like 9,800 to 10,000. Why might you round? Why might you use rounding in real life?

Type here.

if could be rounded to 10,000.

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THE NEAREST TEN THOUSAND

These place value discs show 66,451.

66,451 is # away from 60,000.
66,451 is # away from 70,000.

Which multiple of 10,000 is 66,451 closer to: 60,000 or 70,000?

Type here.

THE NEAREST TEN THOUSAND

STEP 1: Consider the number 28,265. Write the multiples of 10,000 that are below and above 28,265 in the blue rectangles.

2: Place a **star** on the number line where you would find 28,265.

Which multiple of 10,000 is 28,265 closest to?

Type here.

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THE NEAREST TEN THOUSAND

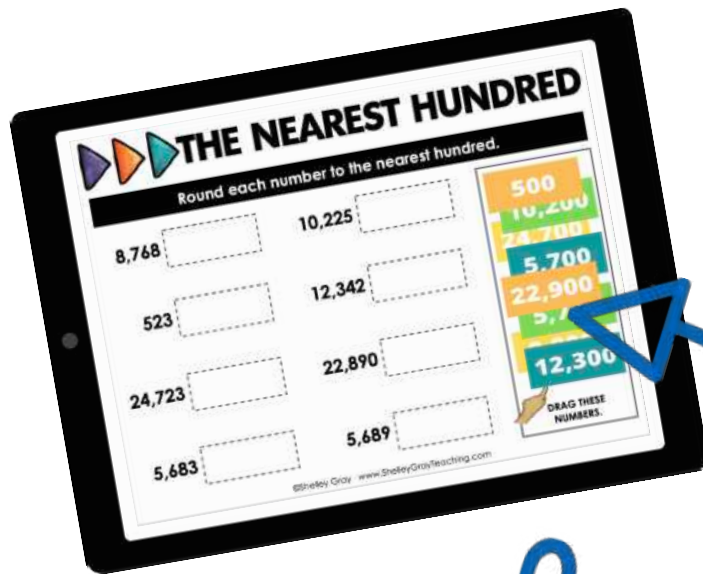
Round each number to the nearest ten thousand.

16,500		92,325	
12,389		76,247	
22,050		23,280	
85,000		51,000	
8,889		45,675	

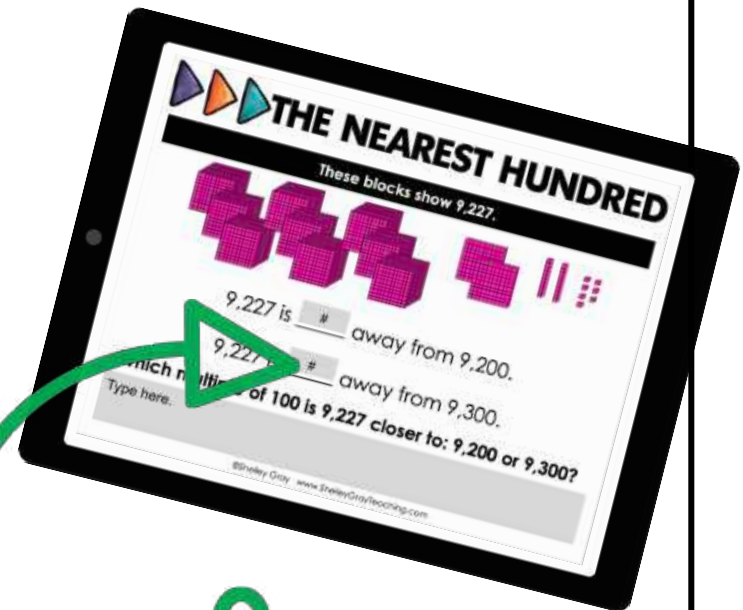
DRAG THESE NUMBERS.

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The digital nature of this resource means that students will be moving objects around and typing directly on the slides. This resource is designed in a way that will make the interactive components intuitive for students.



MOVEABLE!



TEXT BOXES TO TYPE INTO

MORE QUESTIONS ABOUT DIGITAL LEARNING? CHECK OUT THESE INFORMATIVE STEP BY STEP BLOG POSTS FOR ASSIGNING SLIDES AND CREATING ASSIGNMENTS.

<https://shelleygrayteaching.com/google-slides-how-to-assign-only-a-few-slides-at-a-time/>

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